INTERNATIONAL SEARCH REPORT

International application No.

	PCT/JP2004/002379			
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01P5/107				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ H01P5/107				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category* Citation of document, with indication, where ap				
A US 6060959 A (NEC CORP.), 09 May, 2000 (09.05.00), Full text; Figs. 1 to 11 & JP 11-41010 A Full text; Figs. 1 to 5	1-19			
A JP 3464117 B2 (Kyocera Corp. 22 August, 2003 (22.08.03), Par. No. [0023]; Fig. 6 (Family: none)	1-19			
A JP 2003-332811 A (Matsushita Co., Ltd.), 21 November, 2003 (21.11.03), Par. Nos. [0042] to [0047]; I (Family: none)				
Further documents are listed in the continuation of Box C.	See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "I" later document published after the international filing date or priorit date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is			
"O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family			
Date of the actual completion of the international search 23 April, 2004 (23.04.04)	Date of mailing of the international search report 18 May, 2004 (18.05.04)			
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer			
Facsimile No. Form PCT/ISA/210 (second sheet) (January 2004)	Telephone No.			

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International application No.
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		PCT/JP2	2004/0023/9	
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
. A	JP 8-139504 A (NEC Corp.), 31 May, 1996 (31.05.96), Full text; Figs. 1 to 4 (Family: none)		1-19	
A .	EP 1304762 A2 (FUJITSU COMPOUND SEMICOND INC.), 23 April, 2003 (23.04.03), Full text; Figs. 1 to 7	UCTOR,	1-19	
A	EP 893842 A2 (Kyocera Corp.), 27 January, 1999 (27.01.99), Page 9, lines 7 to 9 & JP 11-239017 A Par. No. [0029] & US 6064350 A1		1-19	
A	JP 2638985 B2 (NEC Corp.), 25 April, 1997 (25.04.97), Full text; Figs. 1 to 9 (Family: none)		1-19	
A	JP 3208607 B2 (Fujitsu Ltd.), 13 July, 2001 (13.07.01), Full text; Figs. 1 to 3 (Family: none)		1-19	
A	JP 2002-208806 A (Mitsubishi Electric Co 26 July, 2002 (26.07.02), Full text; Figs. 1 to 19 (Family: none)	rp.),	1-19	
A	JP 11-103176 A (Mitsubishi Electric Corp 13 April, 1999 (13.04.99), Full text; Figs. 1 to 19 (Family: none)	.),	2	
A	EP 253128 A1 (Sony Corp.), 20 January, 1988 (20.01.88), Full text; Figs. 1 to 14 & JP 7-36485 B2 Full text; Figs. 1 to 5 & US 4827276 A1	·	6	